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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-31-17** **Date: 04-04-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Kenchenahalli village in ward No-02 of Yelahanka sub division.
Agency	:	Sri.Ashok.G, No:54,1st Main Road, 3rd Cross , Vyalikaval, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-18
Sample ID No	:	2018-03-31-17 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-04-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.23	–
2	Finess by Air permeablity method (m^2/kg,Min)	278.7	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-31-17** **Date: 05-04-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Kenchenahalli village in ward No-02 of Yelahanka sub division.
Agency	:	Sri.Ashok.G, No:54,1st Main Road, 3rd Cross , Vyalikaval, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-03-18
Sample ID No	:	2018-03-31-17 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-04-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	103	103	2.1	97.9	90-100
3	10 mm	3002	3105	62.1	37.9	25-55
4	4.75 mm	1713	4818	96.4	3.6	0-10
5	Pan	182	5000	100	0	–

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-23-09** **Date: 27/04/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains at Kenchenahalli village in ward No-02 of Yelahanka sub division.

Agency : Sri.Ashok.G, No:54,1st Main Road, 3rd Cross , Vyalikaval, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-04-18

Sample ID No : 2018-04-23-09 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	20/04/2018	27/04/2018	148.53 X 149.30 X 149.58	22175	8.380	194.4	8.8	8.3
2	PCC	M10	20/04/2018	27/04/2018	150.12 X 149.13 X 150.48	22387	8.350	161.9	7.2	
3	PCC	M10	20/04/2018	27/04/2018	150.20 X 149.17 X 151.44	22406	7.710	199.8	8.9	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2018-05-11-04** **Date: 14-05-18**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements of roads and drains at Kenchenahalli village in ward No-02 of Yelahanka sub division.

Agency : Sri.Ashok.G, No:54,1st Main Road, 3rd Cross , Vyalikaval, Bangalore.

Customer Reference : EE(YNK.D)E-PMT-09/W.O/09/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-05-18

Sample ID No : 2018-05-11-04/01

Type of Mix : GSB (Granular Sub Base)

Date of test : 11-05-18

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	966	966	9.66	90.34	80-100
26.5	1254	2220	22.20	77.80	55-90
9.5	1828	4048	40.48	59.52	35-65
4.75	1590	5638	56.38	43.62	25-55
2.36	1764	7402	74.02	25.98	20-40
0.425	1633	9035	90.35	9.65	10-25
0.075	796	9831	98.31	1.69	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.40%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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TEST RESULTS OF BITUMEN BINDER CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-06-19-03** **Date: 20-06-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Kenchenahalli village in ward No-02 of Yelahanka sub division.
Agency	:	Sri.Ashok.G, No:54,1st Main Road, 3rd Cross , Vyalikaval, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/09/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	19-06-18
Sample ID No	:	2018-06-19-03/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	19-06-18

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	498
2	Weight of the sample After extraction	B	476	475
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.8	4.6
4	Average percentage	%	4.7	

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Authorized Signatory
Quality Manager

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